



23rd Year

Northwestern Division ARRL Convention



Seaside Convention Center Seaside, Oregon

June 17 - 19, 2005

Web: www.seapac.org

Presented by
Oregon Tualatin Valley
Amateur Radio Club





Northwestern Division ARRL Convention

You recognize the effort that goes into making an event work. If you've served as an officer of your club, you know that it takes a few highly dedicated individuals to succeed. On page 17 you'll see the names of the people who make *SEA-PAC* worthwhile for us all. If your name is not listed there, you can help

- by expressing thanks to **volunteers** who make this OUR event
- by thanking **vendors** who by doing business with them
- by thanking seminar presenters for their volunteer time
- by completing the questionnaire inside the back page

We strive to conduct an efficient convention, maintaining the entry fee at as reasonable a level as possible. Compare our registration fees (\$ 8.00 - \$ 10.00) with our neighboring ARRL Divisions:

- Pacific Division - \$ 10.00 to \$ 15.00
- Southwestern Division - \$ 10.00 - \$ 15.00
- Rocky Mountain - \$ 9.00 - \$ 12.00

All funds generated by *SEA-PAC* are expended for the event or used for scholarships and club support.

39.9% Printing and Mailing	4.3% Scholarship Award
19.6% Prizes	3.4% Security
11.7% Building and Rentals	3.0% Exhibitors
6.9% Program Book Printing	2.6% Seminars
6.5% Advertising	2.1% Name Badges

Your Funds are spent:

SEA-PAC is sponsored by Oregon Tualatin Valley Amateur Radio Club. Co-sponsoring clubs include: Clark County Amateur Radio Club, Hoodview Amateur Radio Club, and Sunset Empire Amateur Radio Club. Others provide support in a variety of ways.



WELCOME

SEA-PAC, the Northwestern Division ARRL Convention, is sponsored by the Oregon Tualatin Valley Amateur Radio Club. Co-Sponsors include Clark County Amateur Radio Club, Hoodview Amateur Radio Club, and Sunset Empire Amateur Radio Club.

Thanks to convention volunteers for their assistance. We invite everyone to enjoy themselves to the fullest and be a part of making this event a success.

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Awards are drawn throughout the event with the final drawings taking place at 1:00 PM on Sunday.

Be sure to obtain your SEA-PAC '05 pin. Pins from some previous years are available as well. See the Registration desk.

V.E. TEST SESSION

Testing at Our Saviour's Lutheran Church - East Parish Hall
[north - across the street from the Convention Center]

One Session - Saturday at 9:00 AM

Pre-registration requested. Walk-ins — Space Available

Talk-in Station: 146.660 (-600) MHz

SEA-PAC

SCHEDULE OF EVENTS

Friday, June 17

Registration 11:00 AM – 8:00 PM
Exhibitor & Flea Market (Setup Only) 11:00 AM – 8:00 PM
“World of Antennas” Workshop (Riverview ABC).... 12:30 PM – 5:00 PM
ARRL EMCOMM Workshop (Seaside A&B) 1:00 PM - 4:00 PM
“Bored Spouses” Hospitality (Our Saviour’s West Parish Hall) 6:00 – 8:00 PM

Saturday, June 18

Registration 8:00 AM – 4:30 PM
Exhibits & Flea Market..... 9:00 AM – 4:30 PM
Snack Bar 9:00 AM – 4:30 PM
“Bored Spouses” Hospitality (West Parish Hall)..... 9:00 AM – 5:00 PM
VE Exams (Our Saviour’s East Parish Hall)..... 9:00 AM – NOON
Seminars (Seaside & Riverview Rooms) 9:30 AM – 5:00 PM
Hourly Awards 10:00 AM – 3:00 PM
YLRL Luncheon (Oceanview Fireplace Room) 11:30 AM – 1:30 PM
QCWA Luncheon (Oceanview Tillamook Room) 11:30 AM – 1:30 PM
ARRL Forum (Seaside A&B) 1:00 PM – 2:15 PM
Special SEA-PAC Award 2:30 PM
Pre-Banquet Happy Hour (Convention Center Lobby) .. 6:30 PM – 7:15 PM
SEA-PAC Banquet (Convention Center)..... 7:15 PM – 9:30 PM

Sunday, June 19

Registration 8:30 AM – 12:00 PM
Exhibits & Flea Market..... 9:00 AM – 1:00 PM
Snack Bar 9:30 AM – 12:30 PM
Seminars (Seaside & Riverview Rooms) 9:15 AM – 11:30 PM
Hourly Awards 9:00 AM – 11:00 AM
Special SEA-PAC Award 10:30 AM
SEA-PAC Awards 1:00 PM – 2:00 PM
Convention Closes 2:00 PM



2005 CHUCK MICKLEY Memorial Scholarship

Trevor Conroy W7TDC, has been a licensed radio amateur since the year 2000. He became active on the 2m/70cm bands, participating in ARES and McMinnville ARC activities. He was elected AEC of Digital Communications with Yamhill County ARES.

When he passed the 5 wpm code exam and the General Class license exam he became active on the HF bands. After a year of learning the world of HF and contesting he upgraded to Amateur Extra. Trevor has a wide electronics background and enjoys building and rebuilding ham radio equipment and constructing antennas.

During the first two years of being a ham he designed and built a radio-direction finding "fox" that would record and playback a 60 second recording through an HT. Trevor became interested in other modes such as ATV, SSTV, PSK, RTTY, and CW. Trevor enjoys participating in the major SSB contests and state QSO Party contests. His participation in Amateur Radio led to his involvement with ICOM America. He has traveled to Dayton three times with ICOM. He has developed videos that promote Amateur Radio to youth.

This fall, Trevor will study business at DeSales University near Allentown, Pennsylvania. He hopes to start up a radio club during his study. To see Trevor in the ICOM promotional videos, visit: <http://icomamerica.com/amateur/video>.

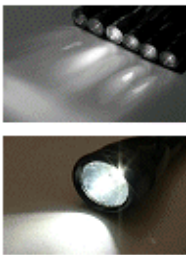



INRETECH

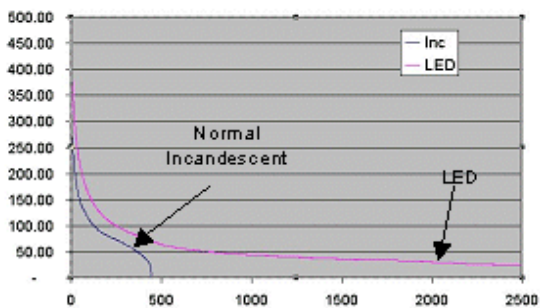
LED (Light Emitting Diode) flashlight adapters

- ▶ Longer operating time
- ▶ Better white color
- ▶ More even pattern
- ▶ More durable

Adapter sizes
AA, 3D, 6D



AA Adapter runtime comparison




Runtime (minutes)	Incandescent (Inc)	LED
0	250.00	250.00
500	0.00	200.00
1000	0.00	150.00
1500	0.00	100.00
2000	0.00	50.00
2500	0.00	0.00

White, Red, Green, Blue, Deep-Blue, Cyan,
Amber, IR, Near-UV

Some wavelengths not available in all sizes

sales@inretech.com
www.inretech.com



SEA-PAC EXHIBITORS

AJ's Custom Embroidery	HRO
Amateur Radio Relay Group	(Ham Radio Outlet)
American Red Cross Oregon Trail Chapter	ICOM America
Aventrade	Inretech
Badge Boys	J & K Enterprises
Battery Tech Inc.	Larry's Antennas LLC
Books Etc	National Communications
Buddipole Antennas	Navy - Marine Corps MARS
Chemeteka Community College	Nomadic Research Labs
Clark County ARC	Oregon Region Relay Council
Dave's Radios LLC	Smiley Antennas
DC Power	StarFire Tec
Electronics Unlimited	Surplus Gizmos.com
Fue Enterprises	USVHSSC
High Sierra Antennas	Homeland Security Service Command
Hotpress Ham Hats	Ventenna Co.
	Western Case Sales
	YLRL
	Young Ladies Radio League

Due to publication deadlines we apologize for any changes or omissions.

SEA-PAC '05 PIN

Congratulations to Julie Landers KD7GQW, winner of the 2005 SEA-PAC Pin Contest. She receives two tickets to the Convention Banquet on Saturday evening. Be sure to pick up your 2005 Pin (\$5.00) at the Registration Desk. Pins from some previous SEA-PAC Conventions are also available for purchase.

SEA-PAC HOSPITALITY ROOM

Our Saviour's Lutheran Church - West Parish Hall

"A Hangout for Bored Spouses"

FRIDAY, June 17th
Open 6:00 PM to 8:00 PM

Stop in, have a cup of coffee, tea or other beverage.

Bring in books and recipes for the exchange and take some with you when you leave.

Come in and try your hand at a new craft project.

SUNDAY, June 19th
No Sunday Hospitality Room

**Children must be supervised
by parent or guardian at all
times**

SATURDAY, June 18th
Open 9:00 AM to 5:00 PM



**Coffee, tea,
and other beverages.
Popcorn, donuts and bagels
(while they last)**

Pick up copies of shared recipes,
exchange a book,
complete a craft.

You don't need to bring a book or
recipe to take one home.

QCWA LUNCHEON

All QCWA Members Invited



CHAPTERS

Alaska

Northern Lights - Anchorage, AK

Idaho

Gem State - Boise, Idaho

Oregon

Beaver State - Eugene, OR
Oregon Coast - Pacific City, OR
Lost River - Klamath Falls, OR

Washington

Fourth Corner - Bellingham, WA
Central Washington - Yakima, WA

Saturday, June 18th at 11:30 AM

Oceanview Resort - Tillamook

YLRL LUNCHEON

All Ladies Invited

"YLRL exists to encourage and assist
YLs ..."

Sharon Kennedy AC7UK

Emergency Manager, City of Hillsboro
Washington County ARES Liaison

**"Washington County
Does Amateur Radio
Very Well"**

Sharon will tell us about
public service events, emergency
exercises, and other ways amateur
radio serves Washington County
citizens and agencies.

Saturday, June 18th at 11:30 AM

Oceanview Resort - Fireplace Room



PRIZE DONATIONS

ALINCO HAM DISTRIBUTION INC
CONROE TEXAS
BEST WESTERN OCEANVIEW
RESORT, SEASIDE
BIG FOOT'S STEAKHOUSE
SEASIDE
CAMP 18 RESTAURANT
& GIFT SHOP, SEASIDE
CIRCLE CREEK RV PARK
SEASIDE
COLONIAL MOTOR INN
SEASIDE
DOOGER'S SEAFOOD & GRILL
SEASIDE
EBBTIDE ENTERPRISES
PORTLAND
GEARHART BY THE SEA
GEARHART
GEARHART GOLF LINKS
GEARHART
HAM RADIO OUTLET
PORTLAND
ICOM AMERICA - BELLEVUE, WA

KENWOOD USA CORP.
SUWANEE, GEORGIA
MOTEL 6, SEASIDE
NEAWANNA BY THE SEA
SEASIDE
NORMA'S OCEAN DINER
SEASIDE
PIG AND PANCAKE, SEASIDE
PORTLAND FUDGE, SEASIDE
SAM'S SEASIDE CAFÉ
SEASIDE
SEASIDE CHAMBER OF
COMMERCE
SEASIDE CONVENTION
CENTER INN
SEASIDE HELICOPTERS, LLC
THE PIZZA HARBOR, SEASIDE
SHILO INNS AND RESORTS
PORTLAND
SHILO INN OCEAN FRONT
SEASIDE
VENICE RV PARK, SEASIDE
VISTA SEA CAFÉ, SEASIDE

SPECIAL AWARDS

Saturday 2:30 PM
Sunday 10:30 AM

Must be present to claim award

AWARDS CEREMONY

Sunday 1:00 PM - 2:00 PM

Awards are donations or are
purchased at or below cost from
manufacturers and dealers.

We take this opportunity to express
appreciation for their assistance.

HOURLY AWARDS

Posted in the lobby
and on stage for 2 hours

Unclaimed Awards are re-issued!

Early Bird Awards

Need Not Be Present

Registrations postmarked prior to
May 14, 2005 eligible

Yaesu FT-857D H/V/U
Yaesu VX-2R Handheld

Award models subject to change
depending on availability from
the manufacturers and dealers.

SEA-PAC AWARDS

You do not need to be present to win these awards

*ICOM IC-718 HF TRANSCEIVER
Alinco DR-620T 2/440 Mobile
Kenwood TM-V708 144/440 Mobile
ICOM IC-W32A 144/440 Handheld
Yaesu FT 60R 144/440 Handheld*

**YOU MUST BE PRESENT IN THE
CONVENTION CENTER TO WIN THESE AWARDS**
-- NONE BY PROXY --

**ICOM IC-2720H 2M/70cm Mobile
Yaesu FT-7800R 144/430 Mobile
Kenwood TH-D7A(G) 144/440 TNC Handheld
ICOM IC-706 MK II-G Compact HF/VHF/UHF**

Dave Bell W6AQ - Banquet Speaker

The ARRL has honored individuals responsible for bringing the *Amateur Radio TODAY* CD presentation from concept to reality. Among those receiving the Special Service award for contributions to Amateur Radio public relations was the director of *Amateur Radio TODAY*, Dave Bell W6AQ. The presentation has been widely distributed -- including to all members of the U.S. Congress. CBS news anchor Walter Cronkite KB2GSD, narrated *Amateur Radio TODAY*.

The League has honored Bell -- a Hollywood TV producer and past chairman of the ARRL Public Relations Committee -- with a Lifetime Achievement Award. The Board of Directors cited Bell's "many significant contributions" to the ARRL, his role as chairman of the Public Relations Committee and his work in the production of films and videos promoting Amateur Radio. His film and video repertoire includes: *The Ham's Wide World*, *Moving Up to Amateur Radio*, *This is Ham Radio*, *The New World of Amateur Radio* and *Ham Radio Olympics*.

We welcome Dave Bell W6AQ as our 2005 SEA-PAC Banquet speaker.

SEMINARS

FRIDAY

- | | | |
|-----------------|--|-------------------------------|
| 12:30 PM | FRIDAY WORKSHOP
Rudy Severns N6LF
"The World of Antennas" | Riverview A, B & C |
| 1:00 PM | ARRL EMERGENCY COMMUNICATIONS
Dan Miller K3UFG ARRL Certification Specialist
COMMUNICATIONS SEMINAR: "A National Perspective" | Seaside A & B |

SATURDAY

- | | | |
|-----------------|---|--------------------------|
| 9:30 AM | "Internet Radio Linking Project"
Michael Bloom W7RAT | Riverview B |
| | "Merchant Marine Communications"
Dick Bass W7SMR | Riverview C |
| | Transmitter Hunting
Dale Hunt WB6BYU | Riverview A |
| 11:00 AM | ICOM D-STAR
Matt Yellen K7DN | Seaside A & B |
| | "Emergency Preparedness"
American Red Cross | Riverview A |
| | "NVIS— Another Look"
Ed Bruette N7NVP | Riverview B |
| | "QRP on the Trail"
Phil Westover WA7URV
Wes Hayward W7ZOI | Riverview C |
| 12:30 PM | ARRL FORUM
Dan Miller K3UFG, ARRL Certification Specialist
Greg Milnes W7OZ, Director, Northwestern Division
Jim Fenstermaker K9JF Vice Director, Northwestern Division | Seaside A & B |

1:00 PM	BYOA: Bring Your Own Antenna Antenna Modeling Terry Dettman WX7S	Riverview A
	Inside the Shaktopus Steven Roberts N4RVE	Riverview B
	PSK and Beyond Clint Hurd KK7UQ	Riverview C
	Geocaching Ron Reeves N7QXO	Seaside C
3:00 PM	Iditarod Communications Mark Kelliher KL7TQ	Seaside A & B
	Breakthroughs in Antenna Design Ken Glanzer K7GCO	Seaside C
	Transmitter Hunting - Advanced Topics Dale Hunt WB6BYU	Riverview A
	IRLP- Looking Inside the Box Michael Bloom W7RAT	Riverview B
	Ham Radio and the Law Phil Kane K2ASP	Riverview C

SUNDAY

9:15 AM	Sound Card Lab Hoodview Amateur Radio Club	Riverview B & C
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SEMINAR TOPICS

~~SEA-PAC~~ seminars are planned to catch your interest and open doors to new Amateur Radio adventures. Presenters volunteer their time to share their knowledge and skills on the many facets of the Amateur Radio Service. Whatever your interests, you're sure to acquire new knowledge to take home.

Here is an overview of seminars being presented this year. We hope you find seminars of interest. Be sure to offer your thanks to the presenter.

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS.

(1) FRIDAY ANTENNA WORKSHOP: "The World of Antennas"

Rudy Severns N6LF, Engineering Consultant (retired)

Friday 12:30 to 5:00 PM Riverview A,B,& C

Here is a opportunity to acquire a top-notch education in a four-part presentation of theory and construction of antennas. The basic section will prepare you to tackle in-depth discussions on dipoles, verticals and array antennas. Even experienced antenna experimenters will find information to fill knowledge gaps.

Limited to 100 participants

Fee (If seats available): \$15.00

(2) The ARRL Emergency Communications

Dan Miller K3UFG, ARRL Certification Specialist

Saturday 1:00 to 5:00 PM Seaside A & B

We will discuss ways and means to better meet the increasing demand for ham radio operators. ARES/RACES leadership, EmComm course graduates, mentors, instructors and future students are encouraged to attend this open interactive presentation.

(3) Internet Radio Linking Project

Michael Bloom W7RAT

Saturday, 9:30 AM Riverview B

The aim of the Internet Radio Linking Project (IRLP) is to provide a simple and easy system to link radio systems together using the Internet as the communications backbone. This will be a practical demonstration of it's capabilities.

(4) Merchant Marine Communications

Dick Bass W7SMR

Saturday, 9:30 AM Riverview C

The maritime mobile service conjures up images of a radio officer called "Sparks" pounding out messages from the radio shack. Today's merchant marine however, uses modern sophisticated voice and data links to communicate and control the ships on the vast oceans. Join Dick in a discussion of this interesting field of communications.

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS

(5) Transmitter Hunting

Dale Hunt WB6BYU

Saturday, 9:30 AM Riverview A

Transmitter hunting, or Radio Direction Finding, can be a fun pastime, an international competitive sport, or a life-saving skill. This seminar will introduce you to the concepts and some simple ways that you can join in the fun.

There will be a 2 meter transmitter hunt on foot at 12:00 Noon following this seminar so you will have a chance to put your new knowledge to good use.

(6) ICOM D-STAR

Matt Yellen K7DN

Technical Sales Specialist D-STAR ICOM AMERICA

Saturday 11:00 AM Seaside A & B

Learn about the new technology from ICOM for the 21st Century.

(7) Emergency Preparedness

Curtis Peetz

American Red Cross

Saturday 11:00 AM Riverview A

Fires, floods and other natural or man made disasters can strike, often without warning. Are you prepared to protect your home and family?

Learn what steps to take now.

(8) NVIS - Another Look

Ed Bruette N7NVP

Saturday 11:00 AM Riverview B

This time it is on a fixed site installation with the attendant theory.

Developed by Ed and Tom Sanders W6QJI, it was given a trial run at the Communications Academy in Shoreline, WA. and was well received. Ed is Western Washington Section Manager and State RACES Officer. Ed and Tom are strong supporters of NVIS antennas for EMCOMM.

(9) QRP On The Trail

Phil Westover WA7URV

Wes Hayward W7ZOI

Saturday, 11:00 AM Riverview C

Do you want to combine your love of the out-of-doors with Ham Radio?

Phil and Wes will give you some hints and ideas about how you may find a way to take your hobby to the "woods."

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS

(10) ARRL Forum

Dan Miller K3UFG, ARRL Certification Specialist

Greg Milnes W7OZ, Director, Northwestern Division

Jim Fenstermaker K9JF, Vice Director, Northwestern Division

Saturday 1:00 PM Seaside A & B

An opportunity to meet Dan and Greg and find out what the league's goals are as well as an opportunity to express your opinion on policy.

(11) BYOA: Bring Your Own Antenna

Practical Antenna Modeling

Terry Dettman WX7S

Saturday, 1:00 PM Riverview A

Learn how to model real antennas by seeing how Terry can build the tables from antenna designs you provide. He will try to model as many designs as time permits.

(12) Inside the Shaktopus

A Computer-Controlled Hamshack-To-Go

Steven Roberts, N4RVE

Nomadic Research Labs

Saturday, 1:00 PM Riverview B

Steven will explain the evolution and design of this highly-integrated portable system. His company is preparing to market these (along with the RigNexus controller, Li-Ion power system, audio mixing, network, remote control, and packaging components) for backpack, mobile, and marine applications. <http://www.microship.com>

(13) PSK and Beyond

Clint Hurd KK7UQ

Saturday 1:00 PM Riverview C

Clint returns with new information on how to get the most from the new digital modes. Also, discussions on basic sound card operation and building your own sound card interface.

(14) Geocaching

Ron Reeves N7QXO

Saturday 1:00 PM Seaside C

Looking for something new to do with your GPS. This rapidly growing pastime is high tech treasure hunting with maps and clues to figure out. All the adventure of "X marks the spot," gold doubloons and pieces of eight. Come and hear the tale.

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS

PLEASE SILENCE AUDIO SIGNALS DURING THE SEMINARS

(15) Iditarod Communications

Mark Keliher KL7TQ

Saturday 3:00 PM Seaside A & B

Most of you have heard of this grueling dog-sled race across the wilds of Alaska. Mark will describe how ham radio supports this event, along with stunning pictures of the locality.

(16) Breakthroughs in Antenna Design

Ken Glanzer K7GCO

Saturday 3:00 PM Seaside C

This year Ken will get your imagination going on your next project by covering a number of new ideas in antenna designs. Also, he will compare some of the popular matching systems.

(17) Transmitter Hunting - Advanced Topics

Dale Hunt WB6BYU

Saturday 3:00 PM Riverview C

This seminar will discuss equipment and techniques for specific Radio Direction Finding applications including competitive hunting, international competitions on foot, locating ELT beacons on aircraft, wildlife tracking, direction finding on HF, and interference problems.

(18) Ham Radio and the Law

Phil Kane K2ASP

Saturday 3:00 PM Riverview C

Phil, a lawyer and engineer, is a FCC veteran who worked many years in the San Francisco Office. He is ready to discuss many legal aspects of our hobby, such as part 97, CCR, and interference issues. Join him for a lively discussion of your rights and responsibilities.

(19) IRLP-Looking Inside the Box

Building Your Own Node

Michael Bloom W7RAT

Saturday 3:00 PM Riverside B

If you envision building your own system or are curious about the circuitry involved, attend this afternoon session. Michael will go into the nuts and bolts of the needed equipment.

(19) Sound Card Lab

Hoodview Amateur Radio Club

Sunday, 9:15 AM Riverview A & B

Computers equipped with sound cards have revolutionized the world of digital communications. With the proper software two way communications for text, data and pictures is now possible that used to require special expensive peripherals. A discussion of the software available and a "hands-on" demo to get you started. If you bring your notebook /laptop we'll help you load the software and customize it.

MEETINGS AT SEA-PAC

SEA-PAC provides the SEA-MIST Room for these meetings.
Meetings are scheduled by, and the responsibility of, the organizations listed.

Saturday, June 18th

10:00 AM..... NTS Forum Pati Urie W7ZIW
1:00 PM ARRL Forum Greg Milnes W7OZ
2:30 PM Oregon ARES Wayne Jack KK7TT
3:30 PM Oregon Section Cabinet Randy Stimson KZ7T

Sunday, June 19th

9:00 AM ARRL NW Division Cabinet Greg Milnes W7OZ

RAGS Test Bench

As a service to flea market buyers, the Radio Amateurs of the Gorge (RAGS) provides a test bench. Equipment includes a power supply, speaker, voltmeter, service monitor, frequency counter, oscilloscope and watt meters. Buyers and prospective buyers are encouraged to make use of this service to check out flea market treasures and those unbelievable bargains.

Neither RAGS nor SEA-PAC accepts responsibility for the condition or operability of any equipment, nor can they be held responsible for equipment damage as a result of use of test gear.

SurplusGizmos.Com, LLC



503-439-1249



We buy and sell both new and used "Gizmos"

Our 4200 sq foot warehouse features:

- NTE Components
- Hobby Electronic Parts
- Network Equipment
- Industrial Equipment
- Audio Video Cables
- Laptop parts
- Network Equipment
- Tools
- Test Equipment
- Development Boards
- Robotics and CNC parts
- Electronic Assemblies

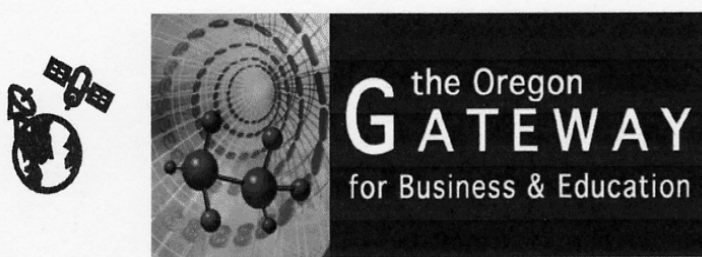
Contact us to sell or recycle your surplus, used, or excess equipment, components, and manufacturing tools.

Store Location: 5797 NW Cornelius Pass Road, Hillsboro Oregon

Only 1 mile North of Highway 26 on the left

Hours: Tuesday thru Friday 11 AM to 6 PM, Saturday 11 AM to 5 PM

Visit our Website at: WWW.SurplusGizmos.com



The Oregon Gateway is part of the Gateway for Business and Education, a project developed by the Enterprise for Employment and supported through a \$2.76 million grant from the U.S. Department of Labor.

The **Gateway for Business and Education project** develops and promotes new and emerging technology training to support local manufacturing and the high-tech industry. The project's primary focus are in the areas of **automation, telecommunications (includes Cisco training), databases (Oracle, etc.), lean manufacturing and nanotechnology**. Training includes traditional, online, industry-friendly, and contracted style classes. Needs-assessments and soft-skills training are also supported under this grant.



The Oregon Gateway for Business and Education includes a Web portal (<http://oregongateway.trainingmatrix.com>) to make it easier to find and register for the training that is useful to you or your company.

Chemeketa Community Colleges Electronics and Network Technology Department (www.educationwithafuture.com) is a primary training provider for the Gateway for Business and Education project. If you or your company needs training or a needs assessment, please visit our portal, <http://oregongateway.trainingmatrix.com> or contact Charles Sekafetz at sekafetz@chemeketa.edu or 503-399-6254.





Northwestern Division ARRL Convention

You recognize the effort that goes into making an event work. If you've served as an officer of your club, you know that it takes a few highly dedicated individuals to succeed. On the back of this page you'll see the names of the people who make *SEA-PAC* worthwhile for us all. If your name is not listed there, you can help

- by expressing thanks to **volunteers** who make this OUR event
- by thanking **vendors** who by doing business with them
- by thanking seminar presenters for their volunteer time
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SEA-PAC Committees

EXECUTIVE COMMITTEE

Al Berg W7SIC
Will Sheffield N7THL
Wayne Schuler AI9Q

TREASURER

Julie Landers KD7GQW

EXHIBITORS

Al Berg W7SIC

EXHIBITORS

HOSPITALITY

Betty Mickley, N7REX
Frances Adams KB8PRL
Scott Adams KB8PRS
Charles Mickley Jr.
Molly Mickley
Joe Boyd N7VZS
Ann Boyd
Brad Wells KD7RTD
Dinah Wells

EXHIBIT SET-UP

Neil McKie, WA6KLA
Cindy Kenyon KC7UJD
Jerry Kenyon KB7LNR
Kevin Novak K7KCN
Carolyn Howells WA7SVV
Doug Leffert KC6WZU
Ivan Looock N7PRM
Laura Sanders
Wes Allen K7WWG
Geoff Apgar W7JEZ
Steve Brice NA7T
Dave Stangland KD7RTE
Nan Stangland
Renate Stangland
Bill Morris W7IH
Steve Tarr KD7MRX
Kathy McClanahan N7YBN
Steve Gubele

MEAL ARRANGEMENTS

Al Berg W7SIC

"BORED SPOUSES"

Julie Landers, KD7GQW
Margie Simmons
Pat Aikenhead WA2ZZZ
Mary Berg N7TRW
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